

This file contains consumer letters received by the National Highway Traffic Safety Administration which complain of the alleged defect that is the subject of this Engineering Analysis. It also contains correspondence between this agency and the manufacturer on the subject. Portions of that correspondence may be withheld where the manufacturer has claimed that they are confidential pursuant to the Freedom of Information Act, 5 U.S.C. § 552(b)(4), which exempts from disclosure confidential commercial and financial information. Additional documents relating to the engineering analysis may exist, but have not been included in this public file.

000001

OCT 9 1987

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. William R. Kittle  
Director, Vehicle Safety and Emissions  
Chrysler Corporation  
P.O. Box 1919  
Detroit, MI 48288

NEF-12rtr  
EA88-001

Dear Mr. Kittle.

This letter is to advise you that the Preliminary Evaluation (PE87-013) pertaining to alleged loss of brake power assist on certain 1984 through 1987 Chrysler Corporation vehicles equipped with the 5.2L engine has been upgraded to an Engineering Analysis (EA88-001) and to request additional information.

For purposes of this information request, the following terms are defined unless otherwise described:

- o Subject vehicles: all 1984 through 1987 Chrysler, Plymouth, Dodge, Plymouth Truck, and Dodge Truck vehicles equipped with the 5.2L engine.
- o Chrysler: all the personnel and files of the Chrysler Corporation including all field personnel.
- o Alleged defect: shall refer to the alleged loss, failure, malfunction, or inadequate performance of the brake power assist and/or the brake system.

In order for my staff to evaluate the alleged defect, certain information is required. Pursuant to Sections 108 and 112 of the National Traffic and Motor Vehicle Safety Act (the Act), please provide numbered responses to the following items. Please repeat each item verbatim before the response. If any information has been provided to this office in response to a previous information request on this matter, that information need not be resubmitted. All other information must be submitted as requested. The submitted information is to include, but not be limited to, all written reports or documents; transcriptions, notes, or other documentation of oral communications; and information contained on electronic storage media.

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66-002

1. Furnish the number of 1987 model subject vehicles sold by Chrysler in the U.S. by make, model and engine (by VIN code, i.e. P, R, S, T).
2. Furnish the number and copies of all owner reports or consumer complaints received by Chrysler, or of which Chrysler is otherwise aware, pertaining to the alleged defect on the subject vehicles. Furnish all reports or complaints whether or not Chrysler has verified each report.
3. Furnish the number and copies of all other reports, complaints, surveys, investigations, surveys, studies, tests, analyses, service and technical bulletins, dealer notices, etc., from all sources either received or authorized by Chrysler, or of which Chrysler is otherwise aware, pertaining to the alleged defect on the subject vehicles. Furnish all information whether or not Chrysler has verified the information. This should include any and all information which has been distributed electronically/electronically.
4. Identify and describe each accident or subrogation claim (including the names, addresses, and telephone numbers of the owner/occupants involved) of which Chrysler is aware on the subject vehicles which may have occurred due to circumstances, conditions, or problems caused by the alleged defect. Furnish all reports whether or not Chrysler has verified each report.
5. Identify all lawsuits, both pending and closed, by title, location and docket number in which Chrysler is or was a defendant (or codefendant) pertaining to, at least in part, the alleged defect on the subject vehicles. Provide a brief synopsis of each case, including Chrysler's analysis of the incident, the identification of the vehicle (model series, model year, and VIN), the date of the incident which was the basis for the lawsuit, the date the lawsuit was filed, and the vehicle owner's name, address, and telephone number. Identify all parties involved in the lawsuit.
6. Furnish an updated listing of warranty claim data related to the alleged defect on the subject vehicles. Provide the data in a format consistent with Chrysler's warranty claim data submission of May 13, 1987. Each problem claim code must be identified. It appears that in Chrysler's responses of March 2, 1987, and May 13, 1987, some warranty claim codes were not clearly identified (i.e., some of the labor operation numbers specified in Chrysler's May 13, 1987 response may not have been clearly identified in Chrysler's description of warranty claim codes submitted on March 2, 1987).

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7. In October of 1986, Chrysler recalled 67,602 1984 through 1987 vehicles equipped with the 5.2L engine for intermittent loss of brake power assist on a second application of the brake pedal in Canada. The defect was a result of the brake booster vacuum hose port in the base of the carburetor being blocked with frozen moisture after an extended period of highway driving at low ambient temperatures. To prevent this defect from occurring, the vacuum source for the brake booster was relocated from the base of the carburetor to the intake manifold.

Indicate whether Chrysler has relocated or will relocate the brake booster vacuum source from the base of the carburetor to the intake manifold on similar U.S. vehicles, either as a design, production, or field modification. If the source was relocated (or will be relocated), describe the modification.

8. Furnish this office a sample of each of the Brake Booster Vacuum Hose Packages and special sockets identified in the Canadian recall report. Indicate whether or not these kits could be used on similar U.S. models.
9. Chrysler's March 2, 1987 response stated: "a total of seventeen vacuum hose port freezing incidents which required correction by rerouting had been reported in the Canadian market." Provide copies of each of these reports.
10. Chrysler's March 2, 1987 response stated: "we attempted to determine the scope of the condition in the U.S. market through contact with our Zone Service Office technical representatives in cold weather areas. We found no awareness of any such reports. Chrysler's March 2, 1987 response included reports regarding consumers Broker and Hively. Broker's report stated "During cold weather -20F or colder, car brakes do not work well if we are road driving - 45 m.p.h. or faster. Broker's state of residence was identified as Alaska. Mr. Hively, a Wisconsin resident, stated "the lack of power brakes is going to kill someone. The cause is filter PN (3)766 429. It filters all the moisture in the line and freezes, causing no vacuum to get to the booster and consequently NO power brakes." Indicate whether or not these reports indicate or appear to indicate "failures" consistent with those reported in the Canadian market.
11. Indicate whether or not Chrysler has considered conducting a recall similar in nature to Chrysler's 83V-019 recall for fuel tank strap corrosion in which the defect occurred in "winter salt zones".

12. Furnish Chrysler's opinion of the alleged defect in the subject vehicles. Please include an assessment of the following:
  - a. the causal or contributory factors which may result in the alleged defect;
  - b. the failure mode;
  - c. the risk to motor vehicle safety created by the alleged defect; and
  - d. any warning of the alleged defect.
13. Furnish a copy of all documents not specifically requested which Chrysler believes are relevant or were used in formulating its assessment of the alleged defect.
14. Furnish any new information of which Chrysler is aware concerning any report, document, or information which may have been previously provided by Chrysler. Also, furnish any additional information of which Chrysler is aware concerning the reports provided by the National Highway Traffic Safety Administration (NHTSA) on this matter.

It is important that Chrysler respond to this letter on time. This letter is being sent pursuant to Section 112 of the the Act, which authorizes this agency to conduct any investigation which may be necessary to enforce Title I of the Act. Your failure to respond promptly and fully to this letter may be construed as a violation of Section 108(a)(1)(B) of the Act.

Your written response, in triplicate, referencing the identification codes in the upper right hand corner of page 1 of this letter, must be submitted to this office within 30 working days from your receipt of this letter. If you find that you cannot respond within the allotted time with all the requested information, you must request an extension from the Director, Office of Defects Investigation, no later than 5 working days prior to the due date for your response. A telephone request for an extension may be made to the Director at (202) 366-2850, but it must be confirmed in writing. On-time delivery of partial submissions should be made when circumstances prevent meeting the required delivery schedule.

If any portion of your response is considered confidential information, include all such material in a separate enclosure marked confidential. In addition, you must submit a copy of all such confidential material directly to the Chief Counsel of the National Highway Traffic Safety Administration and comply with all other requirements of 49 CFR Part 512, Confidential Business Information.

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If you have any technical questions concerning this matter. please contact Mr. Richard T. Reed of my staff at (202) 366-4806.

Sincerely,

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Michael B. Brownlee, Director  
Office of Defects Investigation  
Enforcement

000006



W R Kittle  
Director  
Vehicle Safety and Emissions  
Chrysler Corporation

December 2, 1987

Mr. Michael B. Brownlee, Director  
Office of Defects Investigation, Enforcement  
National Highway Traffic Safety Administration  
U. S. Department of Transportation  
400 Seventh Street, S.W.  
Washington, D.C. 20590

Dear Mr. Brownlee:

Reference: EA88-001; NEF-12rtr

The following and enclosed information is provided in response to your referenced inquiry regarding brake system performance of certain 1984-1987 Chrysler built vehicles. Where appropriate, our responses are limited to an update of our previous March 2, 1987 and May 13, 1987 responses on this subject.

- Q1: Furnish the number of 1987 model subject vehicles sold by Chrysler in the U.S. by make, model, and engine (by VIN code, i.e., P, R, S, T).
- A1: The requested information regarding the number of 1987 model year subject vehicles produced for sale in the U.S. is provided below.

| <u>Model</u>          | <u>Engine Code</u> | <u>1987 Model Year</u> |
|-----------------------|--------------------|------------------------|
| Cars:                 |                    |                        |
| Plymouth Gran Fury    | P                  | 7,347                  |
|                       | 4                  | 748                    |
|                       | S                  | 1,265                  |
| Dodge Diplomat        | P                  | 13,016                 |
|                       | 4                  | 1,653                  |
|                       | S                  | 958                    |
| Chrysler Fifth Avenue | P                  | 5,579                  |
|                       |                    |                        |
| Trucks:               |                    |                        |
| Ramcharger            | T                  | 17,833                 |
| B-Vans/Wagons         | T                  | 69,582                 |
|                       | U                  | 304                    |
| D-Pickups/Cabs        | T                  | 61,137                 |
|                       | U                  | (*) 226                |

A1. (Continued)

Notes:

- Data for entire 1987 model year not an update of previous information.
- Engine Codes  
Car: P = standard 2 bbl; 4 = heavy duty 2 bbl; S = 4 bbl  
Truck: T = 2 bbl; U = 4 bbl
- Canadian recall involved only 2 bbl engine versions.
- (\*) Error in 5/13/87 response -- 305 should be 219. The updated sales figure is now 226.

- Q2. Furnish the number and copies of all owner reports or consumer complaints received by Chrysler, or of which Chrysler is otherwise aware, pertaining to the alleged defect on the subject vehicles. Furnish all reports or complaints whether or not Chrysler has verified each report.
- A2. Searches of our applicable records and files found no pertinent owner reports additional to those previously provided.
- Q3. Furnish the number and copies of all other reports, complaints, surveys, investigations, surveys, studies, tests, analyses, service and technical bulletins, dealer notices, etc., from all sources either received or authorized by Chrysler, or of which Chrysler is otherwise aware, pertaining to the alleged defect on the subject vehicles. Furnish all information whether or not Chrysler has verified the information. This should include any and all information which has been distributed electrically/electronically.
- A3. Enclosed is a copy of an Advance Service Information letter sent to all Chrysler Zone Service Offices in November, 1987. The letter describes the subject condition for diagnosis purposes and provided a repair procedure for its correction. We had decided to issue this letter several months ago to ensure field awareness and to obtain any resulting feedback. But we waited to issue it until November to coincide with the start of the cold weather period.
- Q4. Identify and describe each accident or subrogation claim (including the names, addresses, and telephone numbers of the owner/occupants involved) of which Chrysler is aware on the subject vehicles which may have occurred due to circumstances, conditions, or problems caused by the alleged defect. Furnish all reports whether or not Chrysler has verified each report.
- Q5. Identify all lawsuits, both pending and closed, by title, location and docket number in which Chrysler is or was a defendant (or codefendant) pertaining to, at least in part, the alleged defect on the subject vehicles. Provide a brief synopsis of each case, including Chrysler's analysis of the incident, the identification of the vehicle (model series, model year, and VIN), the date of the incident which was the basis for the lawsuit, the date the lawsuit was filed, and the vehicle owner's name, address, and telephone number. Identify all parties involved in the lawsuit.

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A4 & A5. Our searches found no record of any lawsuits, subrogation claims or any accident reports pertaining to your stated alleged defect.

Q6. Furnish an updated listing of warranty claim data related to the alleged defect on the subject vehicles. Provide the data in a format consistent with Chrysler's warranty claim data submission of May 13, 1987. Each problem claim code must be identified. It appears that in Chrysler's responses of March 2, 1987, and May 13, 1987, some warranty claim codes were not clearly identified (i.e., some of the labor operation numbers specified in Chrysler's May 13, 1987 response may not have been clearly identified in Chrysler's description of warranty claim codes submitted on March 2, 1987).

A6. Enclosed is a listing which updates the warranty claim data provided in our May 13, 1987 response.

All labor operation numbers identified in our May 13, 1987 response were also identified in our March 2, 1987 response, but they don't appear the same because of 8-digit versus 10-digit format. The seventh and eighth digits are not shown in the March 2, 1987 listing. This is simply a format difference between the warranty claim compilation summary data provided in our initial response and the special study warranty data provided subsequently.

Q7. In October of 1986, Chrysler recalled 67,602 1984 through 1987 vehicles equipped with the 5.2L engine for intermittent loss of brake power assist on a second application of the brake pedal in Canada. The defect was a result of the brake booster vacuum hose port in the base of the carburetor being blocked with frozen moisture after an extended period of highway driving at low ambient temperatures. To prevent this defect from occurring, the vacuum source of the brake booster was relocated from the base of the carburetor to the intake manifold.

Indicate whether Chrysler has relocated or will relocate the brake booster vacuum source from the base of the carburetor to the intake manifold on similar U.S. vehicles, either as a design, production, or field modification. If the source was relocated (or will be relocated), describe the modification.

A7. Chrysler did relocate the brake booster vacuum source from the carburetor to the intake manifold on similar U.S. vehicles during 1987 model year production — early in the model year on the subject truck models and late in the model year on cars. The modification is the same as done on Canadian market vehicles, as described in the enclosure for item 3.

Q8. Furnish this office a sample of each of the Brake Booster Vacuum Hose Packages and special sockets identified in the Canadian recall report. Indicate whether or not these kits could be used on similar U.S. models.

A8. Enclosed are samples of the Canadian recall parts packages — C3940285 for cars and C3940286 for trucks. These parts packages could be used on similar U.S. vehicles. The Canadian recall instructions describe a special socket tool to be fabricated by servicing dealers. Sockets were not supplied by Chrysler, and samples are not available.

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- Q9. Chrysler's March 2, 1987 response stated: "a total of seventeen vacuum hose port freezing incidents which required correction by rerouting had been reported in the Canadian market." Provide copies of each of these reports.
- A9. Copies of the seventeen Canadian market reports are enclosed. None of these reports allege any accident or injury circumstances.
- Q10. Chrysler's March 2, 1987 response stated: "we attempted to determine the scope of the condition in the U.S. market through contact with our Zone Service Office technical representatives in cold weather areas. We found no awareness of any such reports." Chrysler's March 2, 1987 response included reports regarding consumers Broker and Hively. Broker's report stated "During cold weather - 20F or colder, car brakes do not work well if we are road driving - 45 mph or faster." Broker's state of residence was identified as Alaska. Mr. Hively, a Wisconsin resident, stated "the lack of power brakes is going to kill someone. The cause is filter PN (3)766 429. It filters all the moisture in the line and freezes, causing no vacuum to get to the booster and consequently NO power brakes." Indicate whether or not these reports indicate or appear to indicate "failures" consistent with those reported in the Canadian market.
- A10. The symptoms and circumstances described in Mr. Broker's report and in our subsequent phone contact with him are consistent with those reported in the Canadian market. However, the condition was not confirmed by Chrysler, nor was its cause determined. We arranged to have the booster vacuum source relocated to the intake manifold on Broker's vehicle which had not at the time of our latest contact experienced winter operation since the relocation service was performed.

Mr. Hively specifically attributes his problem to freezing of the filter, indicating that the condition was eliminated when the filter was removed. This is not consistent with the Canadian input that freezing occurred at the carburetor port. Mr. Hively returned the removed filter to us per our phone request. Our inspection detected nothing unique or any problem with that filter. We also arranged for vacuum source relocation service on the Hively vehicle.

- Q11. Indicate whether or not Chrysler has considered conducting a recall similar in nature to Chrysler's 83V-019 recall for fuel tank strap corrosion in which the defect occurred in "winter salt zones."
- A11. Chrysler has not considered conducting a recall of any nature for the subject condition on U.S. vehicles. It is our evaluation that no such action is necessary.
- Q12. Furnish Chrysler's opinion of the alleged defect in the subject vehicles. Please include an assessment of the following:
- the causal or contributory factors which may result in the alleged defect;
  - the failure mode;
  - the risk to motor vehicle safety created by the alleged defect; and
  - any warning of the alleged defect.
- 00110


- A12. Our previous responses on this subject have described in detail the causal and contributory factors and circumstances associated with a condition of intermittent loss of power brake assist experienced on some Canadian vehicles due to frozen moisture blockage of the booster vacuum hose port. Braking capability is maintained, but increased pedal effort (hard brake pedal) is required due to the loss of power assist. We are not aware of any reports (Canada or U.S.) which allege an accident or injury circumstance due to this condition. The potential for the operator to become cognizant of the operating and ambient circumstances (extended highway driving at extremely low temperature) required to experience the condition may serve as warning.

Based on the almost non-existent U.S. field reporting experience; the product differences between the U.S. and Canada; and the generally diverse Canadian weather, as detailed in our prior responses, it is our evaluation that the subject condition is not a concern on the subject U.S. market vehicles.

- Q13. Furnish a copy of all documents not specifically requested which Chrysler believes are relevant or were used in formulating its assessment of the alleged defect.
- A13. Chrysler believes that all relevant documents have been provided in this and our prior responses.
- Q14. Furnish any new information of which Chrysler is aware concerning any report, document, or information which may have been previously provided by Chrysler. Also, furnish any additional information of which Chrysler is aware concerning the reports provided by the National Highway Traffic Safety Administration (NHTSA) on this matter.
- A14. Through phone contact with Jack Fisher (report enclosed with our March 2, 1987 response), we determined that he had sold his vehicle. He indicated that the brake complaint, which occurred during heavy snow and very cold weather, had never been corrected. The subsequent owner (Tom Locnikar, Rte 2, Avon, MN) stated he had never experienced any braking problems. Inspection of the vehicle showed that the vacuum hose had already been relocated to the intake manifold prior to sale by the original owner.

We are not aware of any additional information on any of the reports provided by NHTSA.

Sincerely,

  
W. R. Kittling  
/dc  
Enclosures (a/s)

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ENCLOSURE FOR ITEM 3  
EA88-001; NEF-12rtr

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## Inter Company Correspondence

Telephone

Date

November 16, 1987

11-23

To: Name &amp; Department

Club Number

ALL ZONE MANAGERS, SERVICE &amp; PARTS SALES

From: Name &amp; Department

Club Number

R. N. Rossi  
National Field  
Service Manager

Center Line

423-16-31

Subject:

ADVANCE SERVICE INFORMATION #87-21

BRAKE BOOSTER VACUUM RESTRICTION CANADIAN RECALL  
5.2L EQUIPPED VEHICLES LISTED BELOW WITH 2BBL CARBURETOR ONLY

1984-1987 Plymouth Gran Fury, Dodge Diplomat, &amp; Chrysler Fifth Avenue

1985-1987 Dodge B1, B2, & B3 Van/Wagon; D1, D2, D3,  
D5, D6 & D7 Pickup; & D4 & D8 RamchargerNOTE: SINCE THIS LETTER INVOLVES AN EXTREME COLD WEATHER PROBLEM, IT IS  
PRIMARILY DIRECTED TO NORTHERN ZONE OFFICES. ALL OTHER ZONES ARE BEING  
INCLUDED IN THE DISTRIBUTION FOR INFORMATION ONLY.The subject vehicles equipped with 5.2L 2BBL engines operating in the Canadian  
market were recalled in November, 1986, to eliminate a potential for brake  
booster vacuum line freeze-up.These vehicles utilize a port at the base of the carburetor as the vacuum source  
for the power brake booster. After extended periods of highway driving in  
extreme cold temperatures, moisture accumulation at the carburetor vacuum port  
could freeze and temporarily restrict vacuum to the brake booster. This caused  
an intermittent loss of brake power assist on a second application of the brake  
pedal.

Only the Canadian vehicles were recalled because:

- o U.S. versions of the subject vehicles have emission system differences that  
result in higher underhood temperatures, and
- o The severity and duration of cold weather in Canada are factors that cause  
the condition.

We are not aware that the brake booster vacuum line freezing condition is a  
problem in the U.S. market. However, in the event you do receive a complaint of  
this nature, the following information will assist you to properly correct the  
condition.

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NOV 18 1987

J. V. TRACY

### Repair Procedure

Should you encounter a vehicle that exhibits the indicated Canadian symptoms, the potential for vacuum line freezing can be eliminated by using the following procedure to relocate the vacuum source for the brake booster from the base of the carburetor to the intake manifold.

### Passenger Cars

1. Remove air cleaner wing nut and shift air cleaner forward slightly to provide access to base of carburetor.
2. Loosen clamps at vacuum hose connections to brake booster check valve, and to nipple at base of carburetor. Remove and discard vacuum hose and filter assembly.
3. Disconnect existing hose(s) from manifold vacuum connector (tree).
4. Carefully remove manifold vacuum connector from intake manifold.
5. Install new connector, PN 4026117, and torque to 27 N.m (20 pound feet).
6. Reconnect hose(s) disconnected in Step 3.
7. Install new preformed vacuum hose, PN 4294294, from the booster check valve to the large nipple on the new intake manifold connector. Use new hose clamps, PN 2448761.
8. Install new rubber cap, PN 3580452, over end of the carburetor nipple that was connected to the booster vacuum hose.
9. Reposition air cleaner and install and tighten wing nut.

### Trucks

1. For Van/Wagon only, loosen two clamps and three bolts and remove engine cover.
2. Remove air cleaner wing nut and shift air cleaner forward slightly to provide access to base of carburetor.
3. Loosen clamps at brake booster vacuum hose connections to in-line filter and to nipple at base of carburetor. Remove and discard short hose and filter assembly. (Retain one clamp and leave longer vacuum hose connected to brake booster.)

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4. Disconnect existing hose(s) from manifold vacuum connector (tree).
5. Carefully remove manifold vacuum connector from intake manifold.
6. Install new connector, PN 4026117, and torque to 27 N.m (20 pound feet).
7. Reconnect hoses disconnected in Step 4.
8. Connect existing longer vacuum hose on brake booster to intake manifold connector using clamp retained in Step 3.

NOTE: ON VAN/WAGON, ROUTE THE HOSE IN THE AREA FORWARD OF THE DISTRIBUTOR AND BEHIND THE CARBURETOR.

9. Install new rubber cap, PN 3580452, over end of carburetor nipple that was connected to the booster vacuum hose.
10. Reposition air cleaner and install and tighten wing nut.
11. For Van/Wagon only, reinstall engine cover, close two clamps, and tighten three bolts to 3 N.m (24 pound inches).

|                     |             |                          |          |
|---------------------|-------------|--------------------------|----------|
| Labor Operation No. | 05-60-10-90 | "M" Body & Pickup Trucks | 0.3 Hrs. |
|                     |             | "B" Van/Wagons           | 0.4 Hrs. |

Failure Code: XX Service Adjustments

Please report any occurrences of this condition to Service Engineering, Attention: A. J. Ramming, via FAX T/L 897-1384. Be sure to include VIN, mileage, repairing dealer, and WRO number.



R. N. Rossi

/mp

|    |                 |                 |                           |
|----|-----------------|-----------------|---------------------------|
| cc | H. J. Duggan    | D. J. Krans     | G. L. Rutherford          |
|    | K. N. Gilboe    | D. Lopez        | G. H. Schmurr             |
|    | G. J. Giocondi  | J. C. Lowry     | L. S. Stiles              |
|    | R. J. Grix      | E. F. Mahon     | J. V. Tracy               |
|    | R. I. Harting   | T. L. Martin    | Regional Managers, S&PS   |
|    | F. R. Henderson | J. W. McCormick | Service Engineering Staff |
|    | C. R. Klapeck   | C. G. Palus     | Technical Advisors        |

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**ENCLOSURES FOR ITEM 6**

**EA88-001; NEF-12rtr**

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# EXHIBIT A-1 SAMPLE CLAIMS LISTING

| VEHICLE ID         | RO | DL    | MICRO   | MIS | DLT | SLO | RPR | LST | CLS | MS | TX | RP | CT | DEALER | CLAIM | LABOR OPERATION | LABOR EXP. | TOTAL EXP. |
|--------------------|----|-------|---------|-----|-----|-----|-----|-----|-----|----|----|----|----|--------|-------|-----------------|------------|------------|
| 1P3012480200170000 | 44 | 44304 | 8503722 | 001 | 0-A | 0-B | 0-C | 1-1 | 1   | 01 | M  | D1 | 00 | 44304  | 01005 | 090001010XX     | 9.90       | 9.90       |
| 1P3012480200170001 | 44 | 44304 | 8503722 | 002 | 0-A | 0-B | 1-1 | 1-2 | 2   | 01 | M  | D1 | 00 | 44304  | 01005 | 090001010XX     | 9.90       | 9.90       |
| 1P3012480200170002 | 44 | 44304 | 8503722 | 003 | 0-A | 0-B | 1-1 | 1-2 | 3   | 01 | M  | D1 | 00 | 44304  | 01005 | 090001010XX     | 9.90       | 9.90       |
| 1P3012480200170003 | 44 | 44304 | 8503722 | 004 | 0-A | 0-B | 1-1 | 1-1 | 4   | 01 | M  | D1 | 00 | 44304  | 01005 | 090001010XX     | 9.90       | 9.90       |
| 1P3012480200170004 | 44 | 44304 | 8503722 | 005 | 0-A | 0-B | 1-1 | 1-2 | 5   | 01 | M  | D1 | 00 | 44304  | 01005 | 090001010XX     | 9.90       | 9.90       |
| 1P3012480200170005 | 44 | 44304 | 8503722 | 006 | 0-A | 0-B | 1-1 | 1-2 | 6   | 01 | M  | D1 | 00 | 44304  | 01005 | 090001010XX     | 9.90       | 9.90       |
| 1P3012480200170006 | 44 | 44304 | 8503722 | 007 | 0-A | 0-B | 1-1 | 1-2 | 7   | 02 | M  | D1 | 00 | 44304  | 01005 | 090001010XX     | 9.90       | 9.90       |
| 1P3012480200170007 | 44 | 44304 | 8503722 | 008 | 0-A | 0-B | 1-1 | 1-1 | 8   | 01 | M  | D1 | 00 | 44304  | 01005 | 090001010XX     | 9.90       | 9.90       |
| 1P3012480200170008 | 44 | 44304 | 8503722 | 009 | 0-A | 0-B | 1-1 | 1-2 | 9   | 01 | M  | D1 | 00 | 44304  | 01005 | 090001010XX     | 9.90       | 9.90       |
| 1P3012480200170009 | 44 | 44304 | 8503722 | 010 | 0-A | 0-B | 1-1 | 1-2 | 10  | 02 | M  | D1 | 00 | 44304  | 01005 | 090001010XX     | 9.90       | 9.90       |
| 1P3012480200170010 | 44 | 44304 | 8503722 | 011 | 0-A | 0-B | 1-1 | 1-2 | 11  | 09 | H  | D1 | 00 | 44304  | 01005 | 090001010XX     | 9.90       | 9.90       |

ABOVE IS A SAMPLE OF WHAT ONE MIGHT SEE IN A TYPICAL CLAIMS LISTING. THE HEADING DESCRIPTIONS ARE AS FOLLOWS:

- VEHICLE ID IS THE ACTUAL IDENTIFICATION NUMBER OF THE VEHICLE ON WHICH THE WARRANTY WORK WAS PERFORMED.
- RO IS THE REGION OR ZONE WHICH PERFORMED THE WARRANTY.
- DLR IS THE DEALER OF THE DEALER WHICH PERFORMED THE WARRANTY.
- MICRO IS THE NUMBER OF THE MICROFILM CARTRIDGE ON WHICH A COPY OF THE M.R.O. EXT 'IS
- MIS IS THE MILEAGE CATEGORY THE VEHICLE WAS IN AT TIME OF REPAIR.
- DLT (000 IS ZERO TO 999 MILEAGE CATEGORY, 001 IS 100 TO 199 AND SO ON)

## A DATES

- DLT IS THE BUILT DATE OF THE VEHICLE.
- SLO IS THE SOLD DATE OF THE VEHICLE.
- RPR IS THE REPAIR DATE OF THE VEHICLE.
- LST IS THE LIST DATE OF THE REPAIR. (THE PATIENT CYCLE DATE)
- CLS (THE DAY OF THE WEEK) IS THE DAY OF THE WEEK THE REPAIR WAS PERFORMED. (THE DAY OF THE WEEK THE REPAIR WAS PERFORMED IS THE LOW ORDER DIGIT OF THE YEAR THE REPAIR WAS PERFORMED. B.Y. 1. THE SECOND POSITION IS THE MONTH, 1 THROUGH 9 REPRESENTING JAN. THROUGH SEPT. AND A, B, & C REPRESENTING OCT., NOV., AND DEC. RESPECTIVELY.)

- MS SPECIFIES THE WARRANTY CLASS CODE UNDER WHICH THE CLAIM WAS PAID
- TX STANDS FOR MONTHS IN SERVICE, THE COMPARISON OF THE SOLD AND REPAIRED DATE.
- RP (01 HANDED DURING THE FIRST MONTH IN SERVICE)
- CT IS THE TRANSACTION CODE. M AND X ARE WARRANTY CLAIMS.
- DEALER IS THE SELLING DEALER.
- CLAIM IS THE COMPONENT TYPE CODE.
- LABOR EXP. IS THE NUMBER OF THE SELLING DEALER.
- TOTAL EXP. IS THE NUMBER OF THE WARRANTY REPAIR ORDER.

See attached sheet for explanation of different date format.

0027

### DATE COLUMN INTERPRETATION

Dates shown on the attached pages are expressed as follows:

- For vehicle build, sold or repaired dates -- by Julian calendar date, e.g. January 20, 1987 is shown as 7020, the first character designating the year and the last three the day of the year.
- For the list date of repair (LST) -- by year, month, and payment cycle (for accounting purposes, each month has two payment cycles). For example, payments made in the second cycle of March 1987 would appear in the LST column as 732.



1986 CAR.

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| VEHICLE ID        | REPAIR | MICRO | DATE-   | W F           | T   | SOLD | CLAIM | LABOR | PAGE | 1      | 1/01/87 | 09.75      |            |            |            |           |        |         |        |        |   |   |
|-------------------|--------|-------|---------|---------------|-----|------|-------|-------|------|--------|---------|------------|------------|------------|------------|-----------|--------|---------|--------|--------|---|---|
| ZN                | DLR    | NO    | BLD     | SID           | RPR | LST  | CLS   | HLS   | A R  | MS     | X       | RP         | CT         | DEALER     | NO         | OPERATION | LABOR  | EXPENSE | TOTAL  | CT     |   |   |
| 1C3BF64P2K549302  | 44     | 54821 | JN13801 | 609761017065  | 741 | L    | 132   | 12    | M    | 54821  | 27165   | 0560010343 | 7.19       | 79.75      | 1          |           | 7.19   | 79.75   |        | 1      |   |   |
| 1C3BF64P76K547669 | 41     | 66848 | JJ25493 | 604620427014  | 741 | L    | 125   | 12    | M    | 82005  | 24027   | 0560010343 | 10.12      | 96.16      | 1          |           | 10.12  | 96.16   |        | 1      |   |   |
|                   |        |       |         |               |     |      |       |       |      |        |         |            | 17.31      | 176.11     | 2          |           | 17.31  | 176.11  |        | 2      |   |   |
| 1C3BF64P1C408746  | 31     | 36100 | KY02016 | 610541017246  | 701 | L    | 165   | 15    | M    | 36100  | 30949   | 0560010363 | 12.26      | 107.63     | 1          |           | 12.26  | 107.63  |        | 1      |   |   |
| 1C3BF64P1C059850  | 35     | 43404 | KZ26549 | 609941017246  | 701 | L    | 165   | 15    | M    | 47465  | 01266   | 0560050111 | 47.65      | 47.65      | 1          |           | 47.65  | 47.65   |        | 1      |   |   |
| 1C3BF64P1C059850  | 35     | 43404 | KZ26549 | 609941017246  | 701 | L    | 165   | 15    | M    | 100.00 | 01266   | 0560050111 | 100.00     | 100.00     | 1          |           | 100.00 | 100.00  |        | 1      |   |   |
| 1C3BF64P2K549302  | 44     | 54821 | JN13744 | 609761017065  | 701 | L    | 132   | 12    | M    | 67021  | 01266   | 0560010363 | 31.20      | 27.50      | 1          |           | 31.20  | 27.50   |        | 1      |   |   |
| 1C3BF64P3C0506796 | 32     | 37058 | LL00446 | 625253525732  | 701 | L    | 277   | 23    | M    | 37058  | 55980   | 0560010367 | 123.46     | 363.02     | 3          |           | 123.46 | 363.02  |        | 3      |   |   |
| 1P3B846P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66382   | 12098      | 0560100011 | 7.60       | 7.60       | 1         |        | 7.60    | 7.60   |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 67232   | 31466      | 0560010363 | 18.00      | 181.53     | 1         |        | 18.00   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 67232   | 31466      | 0560010363 | 18.00      | 181.53     | 1         |        | 18.00   | 181.53 |        | 1 |   |
| 1P3B846P70K59405  | 52     | 56789 | DN51733 | 6036660507082 | 742 | L    | 016   | 0     | 14   | M      | 0       | 72         | 63531      | 15070      | 0560100100 | 6.71      | 11.76  | 11.76   | 1      |        | 1 |   |
| 1C3BF64P1C059850  | 35     | 43404 | KZ26549 | 609941017246  | 701 | L    | 165   | 15    | M    | 66996  | 17137   | 0560010363 | 20.30      | 183.93     | 1          |           | 20.30  | 183.93  |        | 1      |   |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66996   | 17137      | 0560010363 | 4.80       | 54.19      | 1         |        | 4.80    | 54.19  |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 79      | 59546      | 09516      | 0560050165 | 31.89      | 249.60    | 3      |         | 31.89  | 249.60 |   | 3 |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     | 12   | M      | 66811   | 19170      | 0560010363 | 17.99      | 181.53     | 1         |        | 17.99   | 181.53 |        | 1 |   |
| 1C3BF64P6K0532146 | 32     | 66382 | CZ27620 | 6335060927065 | 741 | L    | 019   | 1     |      |        |         |            |            |            |            |           |        |         |        |        |   |   |

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| VEHICLE ID         | REPAIR | MICRO  | NO      | BILD        | SDR | LST | CLS | HLS | A  | RS | X | Y | CT | DEALER | CLAIM | LABOR      | TOTAL   | 12/01/07 09:70 |
|--------------------|--------|--------|---------|-------------|-----|-----|-----|-----|----|----|---|---|----|--------|-------|------------|---------|----------------|
|                    | ZH     | DIR    | NO      |             |     | RP  |     |     |    |    |   |   | CT |        |       | EXPENSE    | EXPENSE | CT             |
| IC380464PHX2736551 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736552 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736553 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736554 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736555 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736556 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736557 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736558 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736559 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736560 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736561 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736562 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736563 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736564 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736565 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736566 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736567 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736568 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736569 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736570 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736571 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736572 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736573 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736574 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736575 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736576 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736577 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736578 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736579 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736580 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736581 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736582 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736583 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736584 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736585 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736586 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736587 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736588 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736589 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736590 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736591 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736592 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736593 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736594 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736595 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736596 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736597 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736598 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736599 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736600 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736601 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736602 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736603 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736604 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736605 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736606 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736607 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736608 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736609 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736610 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736611 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736612 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736613 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736614 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736615 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736616 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736617 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736618 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736619 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 | 6540010363 | 251.31- | 1-             |
| IC380464PHX2736620 | 64     | 469040 | CL71020 | 61760655363 | 7A1 | 2   | 027 | 1   | 02 | C  |   |   |    | 45000  | 18281 |            |         |                |

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| VEHICLE ID        | REPAIR | MICRO | -DATES- | W F          | T   | SOLD | CLAIM | LABOR | PAGE | 1   | 12/01/87 | 09.86 |       |        |            |       |         |    |        |         |
|-------------------|--------|-------|---------|--------------|-----|------|-------|-------|------|-----|----------|-------|-------|--------|------------|-------|---------|----|--------|---------|
|                   | ZH     | OLR   | NO      | BLO          | SID | RPR  | LST   | CLS   | HLS  | A R | HS       | X RP  | CT    | DEALER | NO         | LABOR | EXPENSE | CT | TOTAL  | EXPENSE |
| 284N82177FK368974 | 41     | 42524 | CM55742 | 513551797075 | 741 | 3    | 170   | 0     | 21   | H   | O        | 09    | 42524 | 44592  | 0560010307 | 18.00 | 189.02  | 1  | 189.02 |         |
| 284N82177FK368974 | 32     | 43360 | DE52022 | 428642996364 | 741 | 3    | 221   | 0     | 27   | H   | O        | 09    | 43152 | 01105  | 0560010307 | 18.00 | 171.03  | 1  | 171.03 |         |
| 107J02415F5715927 | 52     | 65769 | EU70572 | 519761757124 | 752 | 2    | 078   | 1     | 11   | H   |          | 65    | 769   | 05160  | 0560010363 | 14.96 | 226.43  | 1  | 226.43 |         |
| 10770141JF5502343 | 35     | 42479 | GC06436 | 433480917140 | 762 | 3    | 506   | 3     | 26   | H   | O        | 09    | 42479 | 11972  | 0560050111 | 6.80  | 54.63   | 1  | 54.63  |         |
| END REPORT        |        |       |         |              |     |      |       |       |      |     |          |       |       |        |            | 39.76 | 641.11  | 3  | 641.11 |         |

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| VEHICLE ID         | REPAIR | MICRO | IN      | OLD          | SLO | RPR | LST | CLS      | HLS  | A | R | HS | X | RP | CT | DEALER   | NO    | SOLD       | CLATH | LABOR  | OPERATION | LABOR | EXPENSE | TOTAL | CT |  |
|--------------------|--------|-------|---------|--------------|-----|-----|-----|----------|------|---|---|----|---|----|----|----------|-------|------------|-------|--------|-----------|-------|---------|-------|----|--|
| 187701417H5380051  | 45     | 07388 | EVS0335 | 631071607113 | 782 | 2   | 006 | 1        | 01 M |   |   |    |   |    |    | 07308    | 05213 | 0560010307 |       | 17.99  |           |       | 146.44  | 1     |    |  |
|                    |        |       |         |              |     |     |     |          |      |   |   |    |   |    |    |          |       |            |       | 106.22 |           |       | 636.36  | 5     |    |  |
| 2840821168K213608  | 54     | 42068 | FC05659 | 623362477132 | 761 | 2   | 027 | 09 M     |      |   |   |    |   |    |    | 42068    | 42054 | 0560050165 |       | 9.59   |           |       | 14.62   | 1     |    |  |
|                    |        |       |         |              |     |     |     |          |      |   |   |    |   |    |    |          |       |            |       | 9.59   |           |       | 14.62   | 1     |    |  |
| 187701417H53333474 | 42     | 59244 | FH14299 | 634943537133 | 762 | 2   | 051 | 05 M     |      |   |   |    |   |    |    | 59244    | 07630 | 0560010307 |       | 18.99  |           |       | 149.44  | 1     |    |  |
| 3840821167H071977  | 35     | 42866 | 6007115 | 704770827112 | 762 | 2   | 031 | 1 01 M B |      |   |   |    |   |    |    | 59 47963 | 13421 | 0560010363 |       | 41.59  |           |       | 132.05  | 2     |    |  |
|                    |        |       |         |              |     |     |     |          |      |   |   |    |   |    |    |          |       |            |       | 40.58  |           |       | 301.49  |       |    |  |
| 284082117H5320131  | 51     | 41078 | GF05079 | 718571632155 | 771 | 2   | 009 | 1 01 M B |      |   |   |    |   |    |    | 41078    | 05280 | 0560010363 |       | 12.50  |           |       | 181.51  | 1     |    |  |
| 187701417H5310174  | 52     | 43491 | CT10726 | 631071617161 | 771 | 2   | 026 | 1 02 M B |      |   |   |    |   |    |    | 59 43491 | 01034 | 0560010363 |       | 32.79  |           |       | 84.24   | 1     |    |  |
| 187701417H5310174  | 52     | 43491 | CT10726 | 631071617161 | 771 | 2   | 026 | 1 02 M B |      |   |   |    |   |    |    | 59 43491 | 01034 | 0560010363 |       | 32.79  |           |       | 84.24   | 1     |    |  |
| 2877082311H0455071 | 31     | 43335 | 6304637 | 634970217166 | 771 | 2   | 084 | 1 05 M   |      |   |   |    |   |    |    | 42335    | 11666 | 0560100111 |       | 9.96   |           |       | 131.45  | 1     |    |  |
|                    |        |       |         |              |     |     |     |          |      |   |   |    |   |    |    |          |       |            |       | 77.17  |           |       | 491.65  | 4     |    |  |
| 187701417H54551715 | 61     | 67591 | G725460 | 706971677166 | 772 | 2   | 002 | 01 M     |      |   |   |    |   |    |    | 67591    | 07439 | 0560050065 |       | 14.00  |           |       | 14.40   | 1     |    |  |
| 2877082317H5320131 | 71     | 59663 | 6202336 | 713317557168 | 772 | 1   | 000 | 1 01 M   |      |   |   |    |   |    |    | 49963    | 21850 | 0560010363 |       | 39.01  |           |       | 209.03  | 1     |    |  |
| 384082117H5310174  | 52     | 43491 | CT10726 | 631071617161 | 771 | 2   | 026 | 1 02 M B |      |   |   |    |   |    |    | 59 43491 | 01034 | 0560010363 |       | 32.79  |           |       | 84.24   | 1     |    |  |
| 187701417H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 187701417H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 187701417H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 187701417H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703570777162 | 772 | 2   | 022 | 05 M     |      |   |   |    |   |    |    | 41085    | 28762 | 0560010363 |       | 25.90  |           |       | 181.63  | 1     |    |  |
| 284082117H54527775 | 74     | 45916 | H412825 | 703          |     |     |     |          |      |   |   |    |   |    |    |          |       |            |       |        |           |       |         |       |    |  |



**ENCLOSURES FOR ITEM 9**

**EA88-001; NEF-12rtr**





**Amoco Canada  
Petroleum Company Ltd.**

Suite 300, 6815 8 Street N.E.  
Calgary, Alberta T2E 7H7

John G.F. McLeod  
District Superintendent

February 6, 1985

Art Wegner  
Regional Service Manager  
Chrysler Canada  
Box 670  
Red Deer, AB  
T4N 5G9

Automotive Fleet Units    Plymouth Caravelle - Brake Problems;  
File: KA-593

Further to a telephone conversation between Wake/Pasemko on February 5, 1985 this letter will confirm that we have been experiencing problems with the braking system on four of our 1984 Plymouth Caravelle Fleet units. The problem has been diagnosed by a mechanic who works for Sundre Sales and Service - Sundre, Alberta as an ice plug in the vacuum hose from the carburetor to the booster unit which has led to four vehicles encountering a "hard" brake pedal and corresponding lack of breaking capability. By copy of this letter to the individuals concerned, we hereby advise them of the potential safety hazard and that we will communicate with them shortly after you advise us of the solution to the problem.

Any further inquiries regarding this situation may be directed to Karl Adam or Greg Pasemko at 295-4100.

*J.G.F. McLeod*

GPP/ddf

cc: E. M. Baraniuk    Calgary Office  
Ron Kenney    Calgary Office  
All District Foremen - Crossfield  
Jack Savage    Northern District  
Len Cyca    Edmonton District  
Wayne Heth    Pembina District



0031



Amoco Canada  
Petroleum Company Ltd.

February 8, 1985

E. M. Baraniuk  
Calgary Office

Automotive Fleet Units - Plymouth Caravelle - Brake Problems;  
File: KA-593

Further to our letter dated February 6, 1985 to Chrysler Canada regarding the above noted subject, it has since been determined that after sending one of our automotive units to Southside Plymouth Chrysler Ltd. - Red Deer, Alberta we have discovered the cause of the brake problems in our Plymouth Caravelles.

Inside the snorkle on the air intake side of the air cleaner is a hot air door which opens or closes according to temperature fluctuations and is controlled by a sensor in the air cleaner. The hot air door should automatically close during periods of cold weather. If the door should remain open, cold air passes through the carburetor, freezes, condensation forms and turns to ice. The cold air is sucked through the base of the carburetor and into the hose that leads to the brake booster unit which is vacuum operated and provides the power assist. The moisture freezes inside the hose plugging it off resulting in a loss of the power brake assist. Although the power assist does not function, manual braking power is still available demonstrated by encountering a "hard" brake pedal and corresponding lack of braking capability.

The problem has been rectified with a simple adjustment to the hot air sensor inside the air cleaner. The door was fluctuating back and forth as it would normally do during warm summer weather instead of remaining closed.

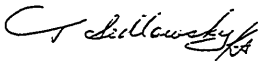
A letter is presently being prepared by South Side Plymouth Chrysler Ltd. and will be sent to their Head Office with a copy to this office outlining the problem. By copy of this letter to all parties concerned,

*Noted tried upgrading booster on these units with  
no success*

6032



the Crossfield District strongly recommends that all Plymouth Caravelle automotive units be taken in to the nearest dealer for immediate service in order to rectify this perspective safety hazard.



T. Sedlowsky  
Acting District Superintendent

GPP/ddf

cc: Art Wegner - Chrysler Canada  
Box 670  
Red Deer, AB  
Ron Kenney - Calgary Office  
All District Foreman - Crossfield  
Jack Savage - Northern District  
Len Cyca - Edmonton District  
Wayne Heth - Pembina District

0033

CHRYSLER  
CANADA LTD./LTÉE

SERVICE PRODUCT REPORT  
RAPPORT SUR LES PRODUITS DE SERVICE

CAR AND TRUCK  
VOITURE ET CAMION

GROUP  
GROUPE

FILE NUMBER  
NUMÉRO DU DOSSIER

FOR WORKSHOP OFFICE USE ONLY  
À L'USAGE DU BUREAU DE TRAVAIL

NAME (printed by)  
NOM (écrit par)

555 85 65555

REGION 25

DATE FEB 6 85

CHASSER NAME  
NOM DU CONCESSIONNAIRE

WINSTON CHRYSLER LTD.

CITY  
VILLE

NOV A24

OWNER NAME  
NOM DU PROPRIÉTAIRE

MOBIL Oil Canada Ltd

ADDRESS  
ADRESSE

BOY 700 WILMABORNE ALTA

V.I.N.  
N.I.V.

1838626P5FX549375

MDH (month/year/Hours of Study)  
MJH (mois/ans/Heures de la réparation)

102913

START YEAR - 10 / AN VIEU (COMMENCEE DE LA VIE)

NOV 19/84

ODOMETER READING  
RELEVÉ DE L'ODOMÈTRE

10054

ORIGINAL DELIVER DATE  
DATE DE LA LIVRAISON INITIALE

CONDITIONS : Descriptive  
CONDITIONS : Descriptive

Customer complaint: no. 1838626P5FX549375. 2. has trouble to push pedal down. had to use park brake to get car stopped - once only.

ILLEGIBLE

WORK PLAN  
ACTION PLAN

I took the car home and tried to get it to duplicate the action under several conditions in the cold weather and was unable to get it to repeat this action. I've replaced the master as the customer felt necessary about way it again.

5558

DATE 85/02/01 V.I.N. -FV 549375 MDH NO. 10-29-10

VEH. DEL. DATE \_\_\_\_\_ MILES/KMS \_\_\_\_\_

NAME A. Wagner REGION 25DEALERS NAME Imhofen, Inc. PHONE NO. \_\_\_\_\_OWNERS NAME Robert C. B. PHONE NO. \_\_\_\_\_Brake Booster Fridge - up - Cold Weather.

## DESCRIPTION OF PROBLEM/ACTION TAKEN

Report from customer indicates that  
after about 20 km driving in very cold  
weather (minus 25°C and colder), the  
power brake booster provides no assist -  
very hard brake pedal. If the vehicle  
is stopped for a few minutes, apparently  
the ambient temperature increases enough  
to restore normal brake power assist.  
Information from customer to Regional Service  
offer further indicates that four other  
vehicles in fleet have reported similar  
problem.

On above listed vehicle, booster will  
be replaced and returned to Service Engineering  
Dept. in Windsor.

Note: Same problem also reported by W. Wright  
on 8150 1985 model year van (booster to be returned).

VIN-287631305K200499

MDH-05-07-18

PROBLEM REGISTERED WITH:

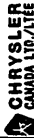
J. J. Dumas  
Deputy Assistant Motor (Part 1)

COPIES TO:

G. F. MackayE. E. Dumas

0035





# SERVICE PRODUCT REPORT RAPPORT SUR LES PRODUITS DE SERVICE CAR AND TRUCK VOITURE ET CAMION

|  |                                  |
|--|----------------------------------|
| GROUP<br>GROUPE  | SILE NUMBER<br>NUMERO DU DOSSIER |
| FOR WHOM OR OFFICE USE ONLY<br>A L'USAGE DU BUREAU DE WHOM OR BUREAU |                                  |

|  |                             |  |                    |
|--|-----------------------------|--|--------------------|
| NAME (Last name first)<br>NOM DU CONCESSIONNAIRE | NAME<br>NOM DU PROPRIETAIRE | REGION<br>REGION   | DATE<br>DATE       |
| ADDRESS<br>ADRESSE                               | CITY<br>VILLE               | PROV.<br>PROV.   |                    |
| VIN<br>NIV.                                      | 2069                        | MDH (Month/Day/Hour of Birth)<br>MJH (Mois/Jour/Heure de la fabrication) | 053116             |
| START HERE - 13 DIGIT VIN COMMENCES AT 13 I.E.V. | 2069                        | ORIGINAL DELIVERY DATE<br>DATE DE LA LIVRAISON INITIALE                  | 10/11/85 Aug 29/85 |

CONDITIONS (Owner's Description)  
D. No Brake assist when cold on first application. Also after the 4th or 5th application (the system warms up)

D. Moisture getting into air cleaner from air filter when driving in light snow storm

ILLEGIBLE

ACTION TAKEN (ACTION PRISE)  
D. He sent the spare to Pontiac Montreal

D. He gave air shock from road shock at road front support frame.

760



SLER  
DATE

SERVICE PRODUCT REPORT  
RAPPORT SUR LES PRODUITS DE SERVICE  
CAR AND TRUCK  
VOITURE ET CAMION

|  |                                  |
|--|----------------------------------|
| GROUP<br>GROUPE  | FILE NUMBER<br>NUMERO DU DOSSIER |
| EPA WARNING: DO NOT USE ONLY<br>ALVASEE DU BUREAU D'ENTRETIEN ELIMINAT |                                  |

FROM St. Louis MOBILE Private DATE Dec. 28  
 " Lab CITY St. Louis MOBILE Lab  
 " St. Louis ADDRESS St. Louis MOBILE Lab  
 V.I.N. 

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 0 | 7 | 4 | 8 | 2 | 3 | 7 | 3 | F | K | 3 | 1 | 5 | 8 | 5 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

 MOBILE 

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 0 | 6 | 2 | 2 | 0 | 1 |
|---|---|---|---|---|---|

  
 N.I.V. 3143 START MILE: 13 DUAL VIN COMMENCEMENT DE 13 M.V. 3143  
 COOMETER MILEAGE  
MILEY DE L'ODOMETRE

CHASSIS DELIVERY DATE  
DATE DE LA LIVRAISON INITIALE

Aug 14/85

CONDITIONS: Describe  
CONDITIONS: Décrivez

No more brake assist on vehicle  
 as cold weather, ~~the~~ car first broke  
 application, and also after driving in  
 city on cold weather ~~also~~ 1st day  
 you would have not ~~the~~ brake assist

ILLEGIBLE

ACTION TAKEN  
ACTION PRISE

Presente Van source for brake assist Direct  
 to Detroit Viper and also more more. Myself  
 plan to brake assist.

6030

CHRYSLER  
CANADA LTD./LTDÉ

SERVICE PRODUCT REPORT  
RAPPORT SUR LES PRODUITS DE SERVICE  
CAR AND TRUCK  
VOITURE ET CAMION

|  |                         |
|--|-------------------------|
| CHRYSLER<br>CANADA LTD.  | CHRYSLER<br>CANADA LTD. |
| FOR WHISKEY OFFICE USE ONLY<br>À L'USAGE DU BUREAU DE WHISKEY TELEVENT |                         |

NAME (Customer's)  
NOM DU PROPRIÉTAIRE

*Don Stuckey*

MOON  
MOON

*Prague*

DATE

*Aug 5/85*

DEALER NAME  
NOM DU CONCESSIONNAIRE

*Prague's*

CITY  
VILLE

*Prague's*

PROV.

*Prague's*

OWNER NAME  
NOM DU PROPRIÉTAIRE

*Jack Tel.*

ADDRESS  
ADRESSE

*Prague's*

V.I.N.

21B7H82376FK313737

N.I.V.

MDH (Month/Day/Hour of Birth)  
M.J.H. (Mois/Jour/Heure de la Naissance)

060510

START HERE - 13 DIGIT VIN COMMENCES PAR 13

COONTRER REGIONAL  
RÉGION DE L'ONTOARIO

ORIGINAL DELIVERY DATE  
DATE DE LA LIVRAISON INITIALE

*Aug 26/85*

DESCRIPTION - Description  
FONCTIONNEMENT - Fonctionnement

*On No Power Brake assist on first stop  
application when cold. Also after 5th stop  
brake application no brake.*

*In this case getting soaked with water from snow  
being picked up through air intake.*

*Yes*

OWNER NAME  
NOM DU PROPRIÉTAIRE

*Q. Resorte was worse to make up  
+ more was needed to make better.*

*Q. Resorte was from air worked.*

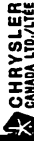
1-800-368-3687

COPY 4 - FILE  
COPIES 1,2,3 - REGIONAL OFFICE

COPY 4 - FILE  
COPIES 1,2,3 - BUREAU REGIONAL

FORM 100-1078





SERVICE PRODUCT REPORT  
RAPPORT SUR LES PRODUITS DE SERVICE  
CAR AND TRUCK  
VOITURE ET CAMION

|                          |                     |
|--------------------------|---------------------|
| GROUP                    | FILE NUMBER         |
| PROVINCE OF REGISTRATION | MODEL NO DU DOSSIER |
| ALYRHO                   | ALYRHO              |

NAME (Régistré en)  
NOM (Régistré en)

Jim BERGWELL

REGION

24 7341

DATE

Dec 03/85

DEALER NAME  
NOM DU CONCESSIONNAIRE

Parkway PC

CITY

Markham

PROV

SK 501E 1A

OWNER NAME  
NOM DU PROPRIÉTAIRE

505K TEL 253386

ADDRESS

Markham SK

505E 1A

V.I.N.

2B74B2375FK300131

MDH (Month/Day/Hour of Build)

MJH (Mois/Jour/Heure de la fabrication)

COMMETER REASON  
RAISON DE L'ACQUISITION

4607 km

ORIGINAL DELIVERY DATE  
DATE DE LA LIVRAISON INITIALE

Reg 08/85

CONDITIONS - Description  
CONDITIONS - Description

Loss of power brake system in cold weather

ACTION TAKEN  
ACTION PRISE

more brake vlc bnd from carb to manifold

10041

**CHRYSLER**  
CANADA LTD./LTDÉ

**SERVICE PRODUCT REPORT**  
**RAPPORT SUR LES PRODUITS DE SERVICE**  
CAR AND TRUCK  
VOITURE ET CAMION

NAME (Client's name)  
NOM (client's name)

Jim REGAN

REGION  
24/1341

DATE  
April 18/85

DEALER NAME  
NOM DU CONCESSIONNAIRE

Parkway PC

CITY  
VILLE

PROV.  
SK

SOF. 190

OWNER NAME  
NOM DU PROPRIÉTAIRE

Dore Long

PROV.  
SK

SOF. 190

V.I.N.

1 B 7 G 2 1 4 T 0 F 5 6 6 0 0 8 1

MOH (Month/Day/Year of Build)

MJH (Month/Day/Year of 1st delivery)

0 4 1 7 1 6

START HERE - 13 DIGIT VIN / COMMENCEZ ICI LE VIN.

14932 km

April 18/85

COMMITTEE READING  
PRÉLÈVE DE L'ODOMÈTRE

ORIGINAL DELIVERY DATE  
DATE DE LA LIVRAISON INITIALE

CONDITIONS - Descriptions  
CONDITIONS - Descriptions

Loss of Radio Assist in C-40 LIBERTY

COPIES 1,2,3 - REGIONAL OFFICE  
COPY 4 - FILE

COPIES 1,2,3 - BUREAU RÉGIONAL  
COPY 4 - DOSSIER

ACTION TAKEN  
ACTION PRISE

More Buick was line from car to manifest.

4/18

2500

2007-10-10 10:10:10

**Appendix**

**CHRYSLER**  
CANADA LTD./LYÉE

**SERVICE PRODUCT REPORT**  
**RAPPORT SUR LES PRODUITS DE SERVICE**

**CAR AND TRUCK  
VOITURE ET CAMION**

|   |                                  |
|---|----------------------------------|
| GROUP<br>GROUPE   | FILE NUMBER<br>NUMERO DU DOSSIER |
| FOR WINDSOR OFFICE USE ONLY<br>À L'USAGE DU BUREAU DE WINDSOR SEULEMENT |                                  |

NAME (Submitted by) \_\_\_\_\_  
 (Last, first, middle initials) \_\_\_\_\_

Tim Reardon

REGION 24 / 7341

**DATE**

Dec 18/85

DEALER NAME \_\_\_\_\_

Doorkway P/c

SIC 5000. 1A

DANIEL KALIE

Ross Hanna

ADDRESS  
ADRESSE

24293 Maltot

5K Sol. 1A0

**V.I.N.  
N.I.V.**

[illegible]

START HERE. 13 OCT VIM / COMMENCEZ ICI 13 MAI.

### DOOMETER READING

21823 km

ORIGINAL DELIVERY DATE  
DATE OF LAST INVENTORY INITIAL P

58/64 20 cl

### Information - Describe

Back of paper placed in cold water

QW

**SYSTEM TAKING  
INITIAL MOUTH  
SYSTEM PRESS**

- move Benson vac line from bank to ramp-off.

75-12-12 1-2



L STUES 280-07-10

CHRYSLER  
CANADA LTD./L'EESERVICE PRODUCT REPORT  
RAPPORT SUR LES PRODUITS DE SERVICE  
CAR AND TRUCK  
VOITURE ET CAMION

|   |                                  |
|---|----------------------------------|
| GROUP<br>GROUPE   | FILE NUMBER<br>NUMERO DU DOSSIER |
| FOR WHISCON OFFICE USE ONLY<br>A L'USAGE DU BUREAU DE WHISCON SEULEMENT |                                  |

|   |   |  |       |
|---|---|--|-------|
| NAME (Lastname) /<br>NOM (Nom de famille)       | REGION<br>REGION  | NAME<br>NOM  | DATE  |
| Ron Stueberg                                    | Quebec  | Monk   | 28/05 |
| DEALER NAME<br>NOM DU CONCESSIONNAIRE           | CITY<br>VILLE   | NAME<br>NOM  |       |
| Labonde Chrysler                                | Quebec  | Monk   | 28/05 |
| CHASSIS NAME<br>NOM DU PROPRIETAIRE             | ADDRESS<br>ADRESSE                                      | MDH (month/Day/Year of Build)<br>M/H (mois/Jour/Année de la fabrication) |       |
| SASK Tel  |   | 05/17/19   |       |
| VIN: 2B7H23T3FK306292                           | ORIGINAL DELIVERY DATE<br>DATE DE LA LIVRAISON INITIALE |  |       |
| N.I.V. 230                                      | 28/05   |  |       |
| OCCUPANT READING<br>RELAY OF THE OCCUPANT       |   |  |       |
| START HERE - 13 DIGIT VIN COMMENCEZ ICI LE VIN. |   |  |       |

CONDITIONS: - Describe  
CONDITIONS: - Décrire

No Vac. exist to Baber on first few  
application when called.

found approx inspection that Vac. here has Montie  
in it. Do to the 3 trailers at the Vac. here  
for power brakes applied. There is a small rust  
at the P.C.V. hose. There is a small rust  
Muffler in the hose in panel at rear of engine  
at a downward angle to trap moisture.

1. D. Detail Vac. Tree # 403617 in place a the Tree  
that is installed in Montreal

ACTION TAKEN  
ACTION PRISE

D. Power. Vac. here from last stop filling.

2. Hose with muffler. remove from long hose to Power Brake.  
3. At front corner near Vac. there is a hole in the place  
of the door and engine Muffler at the spot and  
secure in bracket.

G.H.

COMES 1.23 - REGIONAL OFFICE

1 2 3 4 5 6 7 8 9 10 11 12

STAPLES  
PAS D'AGRAPHES

0 01772

4412

COPIES (REMARKS) NO  
NOT IN FOLDERNO. COPIES  
NO. COPIES

8478

25

0

WEST MOTORS AND OIL CO  
3115 1/2 AVE  
RED OILER ALTA  
TAN 380 AVE ST. JENI

1/03

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CHRYSLER  
CANADA LTD./LIEE

FILE

SERVICE PRODUCT REPORT  
RAPPORT SUR LES PRODUITS DE SERVICE

CAR AND TRUCK  
VOITURE ET CAMION

|   |                                  |
|---|----------------------------------|
| GROUP<br>CROQUIS  | FILE NUMBER<br>NUMERO DE DOSSIER |
| CHRYSLER OFFICE USE ONLY<br>À L'USAGE DU BUREAU DE WILCOSON REVENUEMENT |                                  |

|  |                      |   |   |               |      |             |
|--|----------------------|---|---|---------------|------|-------------|
| NAME (printed) of<br>NOM (écrit) de            | EASTERN SAKES LTD    |   | REGION<br>RÉGION  | PRAIRIE       | DATE | NOV 28 - 85 |
| DEALER NAME<br>NOM DU CONCESSIONNAIRE          | EASTERN SAKES LTD    |   | CITY<br>VILLE   | WINNIPE       | PROV | MAN         |
| OWNER NAME<br>NOM DU PROPRIÉTAIRE              | Province of MANITOBA |   | ADDRESS<br>ADRESSE                                      | 626 Henry St. |      |             |
| VIN  | 2                    | B | 4   | H             | B    | 2           |
| N.I.V.   | 1                    | 7 | 0   | F             | K    | 2           |
|  | 6                    | 2 | 5   | 8             |      |             |
| START HERE - 13 DIGIT VIN (COMMENCEZ ICI VIN.) |                      |   |   |               |      |             |
| ODOMETER READING<br>MILÈGE DE L'ODOMETRE       | 24233                |   | ORIGINAL DELIVERY DATE<br>DATE DE LA LIVRAISON INITIALE | 02 A2-85      |      |             |

CONDITIONS: Owner  
CONDITIONS: Propriétaire: Colleen loss of Vacuum Booster Assist in Brake Booster  
when cold

cc. F. S. Chumney - report of loss of brake assist  
when cold. - report due to brake vacuum  
assist broken to each side.  
/ J. G. Chumney  
05/12/80

AW

ACTION TAKEN  
ACTION PRISE  
REPLACE BOOSTER MAKE SURE VACUUM LINE NOT CONNECTING AT  
CARB - SHOULD Hook UP AT 8 INCHES PART  
COMB

1-800-4-A

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FORM 1000-1000



# ENGINEERING ANALYSIS CLOSING REPORT

**SUBJECT:** Alleged Loss of Power Brake Assist in Low Temperature Zones in 1984 through 1987 Chrysler Corporation Vehicles Equipped With 5.2 Liter 8-Cylinder Engines.

**EA No.** EA88-001 **Date Opened:** 10/01/87 **Date Closed:** MAR 1

**BASIS:** This matter originated as an GOI Preliminary Evaluation (PE87-013) on January 6, 1987.

**THE ALLEGED DEFECT:** The alleged defect addressed in this analysis is the loss of power brake assist due to the brake booster vacuum hose port in the base of the carburetor becoming blocked with frozen moisture after extended periods of highway driving in low ambient temperatures.

**DESCRIPTION OF THE COMPONENT OR VEHICLE SYSTEM:** The subject vehicles are equipped with 8-cylinder engines of 5.2 liter displacement.

## CORRESPONDENCE:

| NHTSA to Mfg. | Mfg. to NHTSA | Mfg. to NHTSA Supplement |
|---------------|---------------|--------------------------|
| 01/14/87      | 03-16-87      | None                     |
| 04/05/87      | 05/13/87      | None                     |
| 10/09/87      | 12/09/87      | None                     |

## PROBLEM EXPERIENCE:

| Reports             | EA OPENED |     | EA CLOSED |     |
|---------------------|-----------|-----|-----------|-----|
|                     | ODI       | MFG | ODI       | MFG |
| Owners              | 0         | 3   | 0         | 3   |
| Field               | 0         | 1   | 0         | 1   |
| Lawsuits            | 0         | 0   | 0         | 0   |
| Property Damage     |           |     |           |     |
| Accidents           | 0         | 0   | 0         | 0   |
| Injury/Accidents    |           |     |           |     |
| Injuries            | 0         | 0   | 0         | 0   |
| Fatality Accidents/ |           |     |           |     |
| Fatalities          | 0         | 0   | 0         | 0   |
| Unknown Accidents   | 0         | 0   | 0         | 0   |
| Canadian Reports    | 0         | 18  | 0         | 20  |

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VEHICLE POPULATION: 1 174,967 vehicles.

Vehicle Sales by Model/ Model Year/ Engine

|         | Model           | Engine* | 1984  | 1985   | 1986   | 1987  |
|---------|-----------------|---------|-------|--------|--------|-------|
| Cars:   | Ply Gran Fury   | P       | 7532  | 11965  | 9634   | 7347  |
|         |                 | 4       | 3240  | 3293   | 1680   | 1748  |
|         |                 | S       | 3744  | 3844   | 3477   | 1265  |
|         | Dodge Diplomat  | P       | 11832 | 24331  | 16581  | 13016 |
|         |                 | 4       | 4788  | 4837   | 1682   | 2653  |
|         |                 | S       | 5543  | 9997   | 8690   | 4958  |
|         | Chrys 5th Ave.  | P       | 79441 | 109971 | 104744 | 70597 |
| Trucks: | Ramcharger      | T       | 20051 | 29643  | 13222  | 17833 |
|         | B-Vans/Wagons   | T       | 69692 | 70818  | 64230  | 69582 |
|         |                 | U       | —     | 233    | 61     | 304   |
|         | D-Pick-ups/Cabs | T       | 66301 | 91470  | 67270  | 61137 |
|         |                 | U       | —     | 457    | 55     | 226   |

- \* Engine Codes are as follows:

Car: P=standard 2bb1 4= heavy duty 2bb1 S= 4bb1

Truck: T= 2bb1 U= 4bb1

WARRANTY CLAIMS: Chrysler's March 2, 1987 response stated "Chrysler's warranty compilation system does not assign description categories or codes based on symptoms such as described in your statement of alleged defect [shall refer to the alleged loss, failure, malfunction, or inadequate performance of the brake system, brake power assist, and alleged "occurrences" of hard brake pedal]." However, a compilation of warranty claim data was provided by Chrysler which "might pertain to the intent of your [ODI] inquiry." Analysis of this data did not indicate the presence of a safety defect trend.

RECALLS: Chrysler has issued no recalls relating to the alleged defect in the U.S. market.

In October 1986, Chrysler recalled 67,602 1984 through 1987 Canadian market vehicles equipped with the 5.2L engine for intermittent loss of power brake assist on a second application of the brake pedal. The defect was a result of the brake booster vacuum hose port in the base of the carburetor being blocked with frozen moisture after an extended

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